## **Mercmaster™ Jr. Luminaires**

### High Pressure Sodium. Suitable for Use in Wet Locations

UNILETS® for Use with Threaded Metal Conduit. 120 V Integral Ballast. Medium Base Socket for Medium Base Lamps.

With Globe: 35 W, 50 W: † Class I, Division 2, Groups A, B, C, D Class II, Division 1 and 2, Groups E ‡, F, G Class III

70 W: †
Class I, Division 2, Groups A, B, C, D
Class II, Division 1 and 2, Groups E ‡, F

100 W, 150 W: † Class I, Division 2, Groups A, B, C, D With Refractor (NEMA V): 35 W, 50 W, 70 W, 100 W: † Class I, Division 2, Groups A, B, C, D Class II, Division 1 and 2, Groups E ‡, F, G Class III

150 W: † Class I, Division 2, Groups A, B, C, D

#### **Applications**

- Inexpensive HID integrally ballasted fixture for use in hazardous locations – inexpensive to buy and inexpensive to operate (uses one-fifth as much electrical energy as incandescent and threequarters as much as fluorescent).
- Enclosed and gasketed HID lighting fixtures for use in tunnels, walkways, bridges, storage facilities, processing plants, parking lots, foundries, manufacturing plants, power plants and other locations where moisture, dirt, dust or corrosive atmospheres are encountered.

#### **Features**

- "Wireless" design. Threading of fixture unit onto mounting hood makes electrical connection. Only wiring required is attaching two wires to connection block in mounting hood.
- Safe, easy servicing without disconnecting any wiring.
   "Wireless" fixture unit easily threads off mounting hood for convenient servicing.
- Quick, easy conversion from Appleton V-51® incandescent installation to Mercmaster Jr. HID. Just remove V-51® fixture unit and thread Mercmaster Jr. fixture unit onto existing V-51® mounting hood.
- Choice of mounting hoods. Standard fixtures in pendant, ceiling, outlet box, wall and stanchion mountings.
- Standard pendant mounting hood for rigid or flexible mounting.
   Balanced round design automatically hangs plumb when used with flexible hanger.
- Unitized construction reduces installation and maintenance costs.
- Ballast has standard non-PCB biodegradable capacitors.
- Medium base socket is furnished with 392 °F/200 °C leads, prewired to the ballast. Porcelain socket assures trouble-free operation in high ambient installations.
- Prismatic glass globe or glass refractor is standard and threads directly into fixture housing. Eliminates glare and provides uniform light distribution.
- Fiberglass reinforced polyester reflector for exceptionally severe corrosive atmospheres. Vented for cooler, dirt-free operation, increased lumen output.

#### **Standard Materials**

- Mounting hoods: copperfree (4/10 of 1% max.) aluminum or malleable iron
- Ballast bodies: copperfree (4/10 of 1% max.) aluminum
- Guards: copperfree (4/10 of 1% max.) aluminum or steel
- Reflectors: fiberglass reinforced polyester or porcelain
- Globe: 35 W-100 W, threaded prismatic glass and threaded polycarbonate; 150 W, threaded heat-resistant prismatic glass
- · Refractor: heat-resistant prismatic glass

#### **Standard Finishes**

- Ballast bodies, aluminum guard and VMA, VXHA-A, OBVW1-A, OBV1-A, JBW1-A, JB1-A, GSW2 and MS mounting hoods: epoxy powder coat finish, electrostatically applied for complete, uniform surface protection
- VA, VXHA, OBVW1, OBV1, GS-2, JBW1, and JB1 malleable iron mounting hoods: triple coat – (1) zinc electroplate; (2) chromate; and (3) epoxy powder coat
- Steel guard: zinc electroplate



#### **Illustrated Feature**

Conversion from Appleton V–51 incandescent installation to HID Mercmaster Jr. is easy and fast.



Step No. 1:

After power is shut off, remove present incandescent V-51 fixture unit from existing V-51 mounting hood.



Step No. 2:

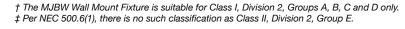
Thread Mercmaster Jr. HID fixture unit onto existing V-51 mounting hood — and conversion is completed.

#### **Options**

• Fuses for fixtures, factory installed. Add suffix -F.

#### **Certifications and Compliances**

- UL Standard: UL 1598, UL 1598A, UL 844
- UL Listed: E10444





# Mercmaster™ Jr. Luminaire Classified Area Suitability and Ballast Data

### High Pressure Sodium. Suitable for Use in Wet Locations

UNILETS® for Use with Threaded Metal Conduit. 120 V Integral Ballast. Medium Base Socket for Medium Base Lamps.

With Globe: 35 W, 50 W: † Class I, Division 2, Groups A, B, C, D Class II, Division 1 and 2, Groups E‡, F, G Class III

70 W: †
Class I, Division 2, Groups A, B, C, D
Class II, Division 1 and 2, Groups E ‡, F

100 W, 150 W: † Class I, Division 2, Groups A, B, C, D With Refractor (NEMA V): 35 W, 50 W, 70 W, 100 W:† Class I, Division 2, Groups A, B, C, D Class II, Division 1 and 2, Groups E‡, F, G Class III

150 W: † Class I, Division 2, Groups A, B, C, D

#### Thermal Suitability

Table at below shows maximum operating temperatures of Mercmaster Jr. fixtures for Class I, Division 2, in a 104 °F/40 °C ambient. Per NEC 500.8(B)(4), the temperature marking on fixtures shall not exceed the ignition temperature of the specific gas or vapor to be encountered. NEC 500.8(B)(4) states that these markings (Identification Numbers) "marked on equipment nameplates shall be in accordance with Table NEC 500.8(C)." This NEC table is duplicated, as it applies to Appleton Mercmaster Jr. fixtures, in the table below.

As shown, the higher the Temperature Identification Number, the cooler the fixture operates. Keep this in mind when selecting a fixture for a specific gas or vapor.

#### Example:

- Gasoline (56-60 octane)
- Fixture with Globe and Reflector

To determine Mercmaster Jr. thermal suitability for the above example:

- (1) Check the Thermal Suitability on the following page for ignition temperature of gas or vapor to be encountered. It reveals that 56-60 octane gasoline has an ignition temperature of 536 °F/280 °C.
- (2) Look in table below for fixtures under "With Globe and Reflector" that do not exceed the 536 °F/280 °C ignition temperature of the gasoline.
- (3) Select the best fixture for your purpose. The 35 W, 50 W, 70 W or 100 W fixture with globe and reflector is acceptable because none of these fixture lamp surfaces exceed the 536 °F/280 °C ignition temperature of the gasoline.

#### Temperature Identification Numbers

	Class I, Division 2, Groups A, B, C and D				Class	II, Division 1 and 2, Groups	E, F and G
	With Globe or with Globe and Reflector		th Globe and Reflector With 8" Refractor		With Globe, with Globe and Reflector, or with 8" Refracto		
Lamp Watts	Nameplate Marking	Temperature Range (°F/°C)	Nameplate Marking	Temperature Range (°F/°C)	Nameplate Marking	Temperature Range (°F/°C)	Groups
35	T4	250-275 / 121-135	T4	250-275 / 121-135	T4C	214-248 / 101-120	E, F, G
50	T2D	394-419 / 201-215	Т3	358-392 / 181-200	ТЗС	277-320 / 136-160	E, F, G
70	T2B	448-500 / 231-260	T2C	421-446 / 216-230	Т3В	322-329 / 161-165	E, F, G <b>0</b>
100	T2A	502-536 / 261-280	T2B	448-500 / 231-260	_	_	E, F, G <b>2</b>
150	T2	538-572 / 281-300	T2A	502-536 / 261-280	_	_	_

#### Ambient Suitability of Mercmaster Jr. Fixtures

All fixtures suitable for operation at -40 °F/-40 °C.

35W	50W	70W	100W	150W
104 °F/	104 °F/	77 °F/	77 °F/	77 °F/
40 °C	40 °C	25 °C	25 °C	25 °C

#### **Retrofits Incandescent Fixtures Easily and Quickly**

- 35 W HPS Comparable to 100/150 W Incandescent Lamp
- 50 W HPS Comparable to 200 W Incandescent Lamp
- 70 W HPS Comparable to 300 W Incandescent Lamp
- 100 W HPS Comparable to 1.5 300 W Incandescent Lamp @
- 150 W HPS Comparable to 2.5 300 W Incandescent Lamp @

#### **Electrical Specifications (Reactor Ballasts)**

Lamp	Line Voltage	Line Curren	Line Current in Amperes		
Watts	60 Hz	Starting HPF	Operating HPF	Input Watts	
35	120	0.41	0.38	43	
50	120	0.62	0.56	60	
70	120	0.70	0.73	82	
100	120	1.10	1.00	115	
150	120	1.70	1.50	170	

#### Optional Factory-Installed Fuses - Add Suffix -F

Available as a factory installed item with Mercmaster Jr. fixtures.

- ●70W suitable for Groups E and F with globe; suitable for Groups E, F, and G with refractor.
- 2 100W suitable for Groups E, F and G with refractor only.
- These are guidelines only. Light distribution and other factors must be taken into consideration.
- † The MJBW Wall Mount Fixture is suitable for Class I, Division 2, Groups A, B, C and D only.
- ‡ Per NEC 500.6(1), there is no such classification as Class II, Division 2, Group E.



# **Mercmaster™ Jr. Luminaires**

## 35 W, 50 W, 70 W, 100 W, 150 W HPS

Complete with Mounting Hood. Medium Base Socket. High Power Factor (Min. P.F. 90%). Integral Ballast for 120 V Line Operation.

With Globe: 35 W, 50 W: † Class I, Division 2, Groups A, B, C, D Class II, Division 1 and 2, Groups E ‡, F, G Class III

70 W: † Class I, Division 2, Groups A, B, C, D Class II, Division 1 and 2, Groups E ‡, F

100 W, 150 W: † Class I, Division 2, Groups A, B, C, D With Refractor (NEMA V): 35 W, 50 W, 70 W, 100 W: † Class I, Division 2, Groups A, B, C, D Class II, Division 1 and 2, Groups E ‡, F, G Class III

150 W: † Class I, Division 2, Groups A, B, C, D

With Globe,	With Refractor		ANSI	Hub Size	Catalog	Number 🛭
Less Guard	(NEMA V)	Lamp Watts	Lamp Type	(Inches)	With Globe, Less Guard	With Refractor (NEMA \
ndant – Alumi	num mounting hoo	d and ballast bod		id or Flexible M	ounting	•
	_	0.5	070	3/4	MA3575-120	MA3575J-120
		35	S76	1	MA3510-120	MA3510J-120
- 1	iñ.		000	3/4	MA5075-120	MA5075J-120
		50	S68	1	MA5010-120	MA5010J-120
	ALLA	70	000	3/4	MA7075-120	MA7075J-120
		70	S62	1	MA7010-120	MA7010J-120
		100	S54	3/4	MA1075-120	MA1075J-120
		100	554	1	MA1010-120	MA1010J-120
		150	S55	3/4	MA1575-120	MA1575J-120
		150		1	MA1510-120	MA1510J-120
iling – Alumin	um mounting hood	and ballast body	. Five Hubs, Fou	r Close-Up Plu	gs	
		35	S76	3/4	MC3575-120	MC3575J-120
		33	5/6	1	MC3510-120	MC3510J-120
WIII		50	S68	3/4	MC5075-120	MC5075J-120
200		50	506	1	MC5010-120	MC5010J-120
		70	000	3/4	MC7075-120	MC7075J-120
	621	70	S62	1	MC7010-120	MC7010J-120
		100	054	3/4	MC1075-120	MC1075J-120
		100	S54	1	MC1010-120	MC1010J-120
		450	055	3/4	MC1575-120	MC1575J-120
		150	S55	1	MC1510-120	MC1510J-120
and the same of th	1					
1		35	S76		MGSW35-120	MGSW35J-120
3		50	S68	<u>-</u> -	MGSW50-120	MGSW50J-120
		50 70	S68 S62	_ _ _	MGSW50-120 MGSW70-120	MGSW50J-120 MGSW70J-120
	A	50 70 100	\$68 \$62 \$54	_ _ _ _	MGSW50-120 MGSW70-120 MGSW10-120	MGSW50J-120 MGSW70J-120 MGSW10J-120
		50 70	S68 S62	_ _ _ _ _	MGSW50-120 MGSW70-120	MGSW50J-120 MGSW70J-120
all @6 – Class I	, Division 2 only. Alur	50 70 100 150	\$68 \$62 \$54 \$55	- - -	MGSW50-120 MGSW70-120 MGSW10-120	MGSW50J-120 MGSW70J-120 MGSW10J-120 MGSW15J-120
all @@ — Class I	, Division 2 only. Alur	50 70 100 150 minum mounting h	\$68 \$62 \$54 \$55 ood and ballast b	- - -	MGSW50-120 MGSW70-120 MGSW10-120 MGSW15-120 screws furnished with fixt	MGSW50J-120 MGSW70J-120 MGSW10J-120 MGSW15J-120 ure. Fits JBX Cast Boxe
all @@ — Class I	, Division 2 only. Alur	50 70 100 150 minum mounting h	\$68 \$62 \$54 \$55 ood and ballast b	- - -	MGSW50-120 MGSW70-120 MGSW10-120 MGSW15-120 screws furnished with fixt MJBW35-120	MGSW50J-120 MGSW70J-120 MGSW10J-120 MGSW15J-120 ure. Fits JBX Cast Boxe MJBW35J-120
all @@ — Class i	, Division 2 only. Alur	50 70 100 150 minum mounting h	\$68 \$62 \$54 \$55 ood and ballast b	— — ody. Gasket and —	MGSW50-120 MGSW70-120 MGSW10-120 MGSW15-120 screws furnished with fixt MJBW35-120 MJBW50-120	MGSW50J-120 MGSW70J-120 MGSW10J-120 MGSW15J-120 ure. Fits JBX Cast Boxe MJBW35J-120 MJBW50J-120
all @@ — Class I	, Division 2 only. Alur	50 70 100 150 minum mounting hounding h	\$68 \$62 \$54 \$55 ood and ballast b \$76 \$68 \$62	— — ody. Gasket and —	MGSW50-120 MGSW70-120 MGSW10-120 MGSW15-120 screws furnished with fixt MJBW35-120 MJBW50-120 MJBW70-120	MGSW50J-120 MGSW70J-120 MGSW10J-120 MGSW15J-120 ure. Fits JBX Cast Boxe MJBW35J-120 MJBW50J-120 MJBW70J-120
III 00 – Class I	, Division 2 only. Alur	50 70 100 150 minum mounting he 35 50 70	\$68 \$62 \$54 \$55 <b>ood and ballast b</b> \$76 \$68 \$62 \$54	— — ody. Gasket and —	MGSW50-120 MGSW70-120 MGSW10-120 MGSW15-120 screws furnished with fixt MJBW35-120 MJBW50-120 MJBW70-120 MJBW10-120	MGSW50J-120 MGSW70J-120 MGSW10J-120 MGSW15J-120 ure. Fits JBX Cast Boxe MJBW35J-120 MJBW50J-120 MJBW70J-120 MJBW10J-120
		50 70 100 150 minum mounting house 50 70 100 150	\$68 \$62 \$54 \$55 <b>ood and ballast b</b> \$76 \$68 \$62 \$54	  ody. Gasket and   	MGSW50-120 MGSW70-120 MGSW10-120 MGSW15-120 screws furnished with fixt MJBW35-120 MJBW50-120 MJBW70-120	MGSW50J-120 MGSW70J-120 MGSW10J-120 MGSW15J-120 ure. Fits JBX Cast Boxe MJBW35J-120 MJBW50J-120 MJBW70J-120
	, Division 2 only. Alur	50 70 100 150 minum mounting house 50 70 100 150	\$68 \$62 \$54 \$55 <b>ood and ballast b</b> \$76 \$68 \$62 \$54		MGSW50-120 MGSW70-120 MGSW10-120 MGSW15-120 screws furnished with fixt MJBW35-120 MJBW50-120 MJBW70-120 MJBW10-120 MJBW15-120	MGSW50J-120 MGSW70J-120 MGSW10J-120 MGSW15J-120 ure. Fits JBX Cast Boxe MJBW35J-120 MJBW50J-120 MJBW70J-120 MJBW10J-120 MJBW15J-120
		50 70 100 150 minum mounting house 50 70 100 150	\$68 \$62 \$54 \$55 <b>ood and ballast b</b> \$76 \$68 \$62 \$54	- - - ody. Gasket and - - - - - - nub	MGSW50-120 MGSW70-120 MGSW10-120 MGSW15-120 Screws furnished with fixt MJBW35-120 MJBW50-120 MJBW70-120 MJBW10-120 MJBW15-120 MJBW15-120	MGSW50J-120 MGSW70J-120 MGSW10J-120 MGSW15J-120 MUSW15J-120 MJBW35J-120 MJBW70J-120 MJBW10J-120 MJBW10J-120 MJBW15J-120
		50 70 100 150 minum mounting h 35 50 70 100 150	\$68 \$62 \$54 \$55 ood and ballast b \$76 \$68 \$62 \$54 \$55		MGSW50-120 MGSW70-120 MGSW10-120 MGSW15-120 Screws furnished with fixt MJBW35-120 MJBW50-120 MJBW70-120 MJBW10-120 MJBW15-120 MS35125-120 MS35150-120	MGSW50J-120 MGSW70J-120 MGSW10J-120 MGSW15J-120 ure. Fits JBX Cast Boxe MJBW35J-120 MJBW50J-120 MJBW70J-120 MJBW10J-120 MJBW15J-120 MS35125J-120 MS35150J-120
		50 70 100 150 minum mounting h 35 50 70 100 150	\$68 \$62 \$54 \$55 ood and ballast b \$76 \$68 \$62 \$54 \$55		MGSW50-120 MGSW70-120 MGSW10-120 MGSW15-120 Screws furnished with fixt MJBW35-120 MJBW50-120 MJBW70-120 MJBW10-120 MJBW15-120 MS35125-120 MS35150-120 MS50125-120	MGSW50J-120 MGSW70J-120 MGSW10J-120 MGSW15J-120 MUSW15J-120 MJBW35J-120 MJBW70J-120 MJBW10J-120 MJBW10J-120 MJBW15J-120 MS35125J-120 MS35150J-120 MS50125J-120
		50 70 100 150 minum mounting he 35 50 70 100 150 cing hood and bal	\$68 \$62 \$54 \$55 ood and ballast b \$76 \$68 \$62 \$54 \$55 last body. One h		MGSW50-120 MGSW70-120 MGSW10-120 MGSW15-120 Screws furnished with fixt MJBW35-120 MJBW70-120 MJBW10-120 MJBW15-120 MS35125-120 MS35150-120 MS50125-120 MS50150-120	MGSW50J-120 MGSW70J-120 MGSW10J-120 MGSW15J-120 MUSW15J-120 MJBW35J-120 MJBW70J-120 MJBW10J-120 MJBW10J-120 MJBW15J-120 MS35125J-120 MS35150J-120 MS50125J-120 MS50125J-120
		50 70 100 150 minum mounting he 35 50 70 100 150 cing hood and bal	\$68 \$62 \$54 \$55 ood and ballast b \$76 \$68 \$62 \$54 \$55 last body. One h		MGSW50-120 MGSW70-120 MGSW10-120 MGSW15-120 Screws furnished with fixt MJBW35-120 MJBW70-120 MJBW10-120 MJBW15-120 MS35125-120 MS35150-120 MS50125-120 MS70125-120 MS70125-120	MGSW50J-120 MGSW70J-120 MGSW10J-120 MGSW15J-120 MGSW15J-120 MJBW35J-120 MJBW50J-120 MJBW70J-120 MJBW10J-120 MJBW15J-120 MS35125J-120 MS35150J-120 MS50125J-120 MS50150J-120
		50 70 100 150 minum mounting he 35 50 70 100 150 sing hood and bal 35	\$68 \$62 \$54 \$55 ood and ballast b \$76 \$68 \$62 \$54 \$55 last body. One h		MGSW50-120 MGSW70-120 MGSW10-120 MGSW15-120 Screws furnished with fixt MJBW35-120 MJBW70-120 MJBW10-120 MJBW15-120 MS35125-120 MS35150-120 MS50125-120 MS70125-120 MS70150-120	MGSW50J-120 MGSW70J-120 MGSW10J-120 MGSW10J-120 MGSW15J-120  MURE. Fits JBX Cast Boxe MJBW35J-120 MJBW50J-120 MJBW70J-120 MJBW10J-120 MJBW15J-120 MS35125J-120 MS35150J-120 MS50125J-120 MS50150J-120 MS70125J-120 MS70150J-120
		50 70 100 150 minum mounting he 35 50 70 100 150 sing hood and bal 35	\$68 \$62 \$54 \$55 ood and ballast b \$76 \$68 \$62 \$54 \$55 last body. One h		MGSW50-120 MGSW70-120 MGSW10-120 MGSW15-120 Screws furnished with fixt MJBW35-120 MJBW50-120 MJBW70-120 MJBW10-120 MJBW15-120 MS35125-120 MS35150-120 MS50125-120 MS70125-120 MS70150-120 MS70150-120 MS10125-120	MGSW50J-120 MGSW70J-120 MGSW10J-120 MGSW15J-120 MGSW15J-120 MJBW35J-120 MJBW50J-120 MJBW70J-120 MJBW10J-120 MJBW15J-120 MS35125J-120 MS35150J-120 MS50125J-120 MS70125J-120 MS70125J-120 MS70150J-120
		50 70 100 150 minum mounting he 35 50 70 100 150 sing hood and bal 35 50	\$68 \$62 \$54 \$55 ood and ballast b \$76 \$68 \$62 \$54 \$55 last body. One h \$76 \$68		MGSW50-120 MGSW70-120 MGSW10-120 MGSW15-120 Screws furnished with fixt MJBW35-120 MJBW70-120 MJBW10-120 MJBW15-120 MS35125-120 MS35150-120 MS50125-120 MS70125-120 MS70150-120	MGSW50J-120 MGSW70J-120 MGSW10J-120 MGSW15J-120 MUSW15J-120 MJBW35J-120 MJBW50J-120 MJBW10J-120 MJBW10J-120 MJBW15J-120 MS35125J-120 MS35150J-120 MS50125J-120 MS50150J-120 MS70125J-120 MS70125J-120

<sup>‡</sup> Per NEC 500.6(1), there is no such classification as Class II, Division 2, Group E.



<sup>†</sup> The MJBW Wall Mount Fixture is suitable for Class I, Division 2, Groups A, B, C and D only.

<sup>@</sup> All fixtures on this page comply with UL Standard 844 except MJBW Wall Mount Fixture, which is not suitable for Class II, Division 1.

<sup>•</sup> Using cast outlet box with Wall Mount Fixture provides the following clearances: for the globe – JBX box, 1-5/8" from wall; GSU box, 2" from wall; for the refractor – JBX box, 15/16" from wall; GSW box, 1-5/16" from wall. Reflectors cannot be used with the wall mount fixtures.

Stanchion Mount can be used with standard dome or 30° angle reflector.

**⑤** To order fixture with guard, add **-G** before voltage (example: MA3575G-120).

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With Globe: 35 W, 50 W: † Class I, Division 2, Groups A, B, C, D Class II, Division 1 and 2, Groups E ‡, F, G Class III

70 W: †
Class I, Division 2, Groups A, B, C, D
Class II, Division 1 and 2, Groups E ‡, F

100 W, 150 W: † Class I, Division 2, Groups A, B, C, D With Refractor (NEMA V): 35 W, 50 W, 70 W, 100 W: † Class I, Division 2, Groups A, B, C, D Class II, Division 1 and 2, Groups E ‡, F, G Class III

150 W: † Class I, Division 2, Groups A, B, C, D

			Lamp	ANSI	Catalog	Number
With Globe	With 8" Refractor	Description	Watts	Lamp Type	With Globe <b>0</b>	With 8" Refractor
Outlet Box Fixture						
			35	S76	MOB35-120	MOB35J-120
THE STATE OF THE S		Aluminum ballast housing, complete with aluminum mounting hood. Epoxy clad.	50	S68	MOB50-120	MOB50J-120
		Use with SEH and 3-1/4" or 4" Octagonal	70	S62	MOB70-120	MOB70J-120
		Outlet Box. Fixture furnished with mounting plate and gasket. Octagonal boxes not suitable for classified locations.	100	S54	MOB10-120	MOB10J-120
			150	S55	MOB15-120	MOB15J-120

		Lamp Watts	ANSI Lamp Type	Catalog Number
ixture Units				
	Ballast body with globe (VPGL-1 with 35	S76	35	MUL35-120
	W, 50 W, 70W and 100W and <b>VPGL-1HR</b> with 150 W). Use with mounting hoods on	S68	50	MUL50-120
	following page or any V-51 series mounting hood. Polyester or porcelain reflector and	S62	70	MUL70-120
	aluminum guard are available. High power	S54	100	MUL100-120
	factor (min. P.F. 90%). Ballast provides 120 V line operation.		150	MUL150-120
sallast Bodies				
	Use with mounting hoods on following	S76	35	MBL35-120
	page or any V-51 series mounting hood and	S68	50	MBL50-120
	with refractor or globe listed. Order other accessories below as desired. High power	S62	70	MBL70-120
	factor (min. P.F. 90%). Ballast provides 120 V	S54	100	MBL100-120
	line operation.	S55	150	MBL150-120

<sup>•</sup> Order JBX or GSU box on following page.



<sup>‡</sup> Per NEC 500.6(1), there is no such classification as Class II, Division 2, Group E.

<sup>†</sup> The MJBW Wall Mount Fixture is suitable for Class I, Division 2, Groups A, B, C and D only.

# **Mercmaster™ Jr. Luminaire Mounting Hoods and Outlet Boxes**

## High Pressure Sodium. Suitable for Use in Wet Locations

UNILETS® for Use with Threaded Metal Conduit. 120 V Integral Ballast. Medium Base Socket for Medium Base Lamps.

			Hub Size	Catalog	Number
			(Inches)	Aluminum	Malleable Iron
Pendant Mounting Fur	nished with cor	nnection block, gasket and screws			
(90)	OFF		1/2	_	VA50
			3/4	VMA75	VA75
VMA	VA		1	VMA100	VA100
Ceiling Mounting Five	Hubs. Furnishe	d with connection block, gasket, screws and four close-up	plugs		
6 313	r.		1/2	VXHA50-A	VXHA50
3			3/4	VXHA75-A	VXHA75
A second of	VXHA		1	VXHA100-A	VXHA100
Cast/Outlet Box Moun locations. Fits SEH and		l with connection block, mounting plate and gasket. Octag ctagonal Box ❷	onal outlet b	oox not suitable	for classified
		Wall <b></b>		OBVW1-A	OBVW1
	/EFECTOR	Ceiling		OBV1-A	OBV1
OBVW	OB	V			
GS Round Base - Fits	GSU Cast Box	es 8 4 Furnished with connection block, gasket and screw	ws		
9	4	Wall <b></b>		_	GSW2
APPLETON	frentsoel.	Ceiling		_	GS2
GSW	us				
JB Round Base - Fits	JBX Cast Boxe	es <b>0 0</b> Furnished with connection block, gasket and screw	rs .		
		Wall 6		JBW1-A	JBW1
JBW	JB	Ceiling		JB1-A	JB1
Stanchion Mounting 6	25° Stanchion	furnished with connection block and screws.			
	3		1-1/4	MS-125	_
			1-1/2	MS-150	_
	MS				
<b>JBX Cast Conduit Out</b>	let Boxes <b>❸</b>				
		Aluminum. 1-5/16" inside depth. Four tapped openings,	1/2	JBX50L-A	_
		two close-up plugs and mounting lugs. Use with JBW	3/4	JBX75L-A	_
c los	JBX	wall mount fixture and JB round base mounting hoods			
GSU Cast Conduit Out	tlet Box (Form	20) •			
		•	1/2 or 3/4	_	GSU-20
		Malleable iron. 1-3/4" inside depth. Four 3/4" hubs with four 3/4" to 1/2" reducers, and three 1/2" close-up	1	_	GSU-100
		plugs. Use with GSW wall mount fixture and GS round			
- 0	CT (D)	base mounting hoods			

❷ Order SEH box from catalog section A and octagonal box from Section OB. To order fixture with guard, add G before voltage (example: MOB35G-120).



Order JBX below. Using JBX Box with these fixtures and mounting hoods provides 15/16" clearance from wall with refractor and 1-5/8" clearance from wall with globe.

<sup>•</sup> Order GSU below. Using GSU Box with these fixtures and mounting hoods provides 1-5/16" clearance from wall with refractor and 2" clearance from wall with globe.

<sup>6</sup> Reflectors cannot be used with wall mount fixtures. See dimensions for globe or refractor clearance from wall for these fixtures.

Stanchion mounting hood can be used with standard dome or 30° angle reflector.

# **Mercmaster™ Jr. Luminaire Accessories**

# High Pressure Sodium. Suitable for Use in Wet Locations

UNILETS® for Use with Threaded Metal Conduit. 120 V Integral Ballast. Medium Base Socket for Medium Base Lamps.

		Description	Catalog Number
Globes - 35 W-150 W			
		Clear Heat-Resistant Prismatic Glass	VPGL-1HR
		Polycarbonate (100W lamp max.) ❷	VPGL-2PL
VPGI _1HR	VPGI _2PI		

	Description	Light Distribution	IES/NEMA Distribution Curves	Catalog Number
Refractors – 35 W-150 W				
	Closed Priametic Close 9" Petroeters	NEMA Type II	•••	LPJR-2CG
T	Closed Prismatic Glass 8" Refractors -	NEMA Type V	***	LPJR-5CG

			Catalog	) Number
		Description	Porcelain	Polyester
Reflectors - 35 W-1	50 W O			
		Standard (porcelain, 16" dia.; polyester, 16-1/4" dia.)	LPR-25ST	LPRP-25ST
		30° Angle (porcelain, 12" dia.; polyester, 14-3/8" dia.)	LPR-25AN	LPRP-25AN
Standard	30° Angle			
		Description	Catalog	

		Description	Catalog Number
Guards - 35 W-150	W		
	AFF	Copperfree Aluminum Guard	VPGU-1
		Steel Guard for 8" Refractors	LPBG-8
VPGU-1	LPBG-8		
Socket			
5		35 W-150 W (Medium Base)	JRS-100
Gasket			
	$\supset$	Globe Gasket, Silicone Rubber – 35W-150W	VPGL-GK

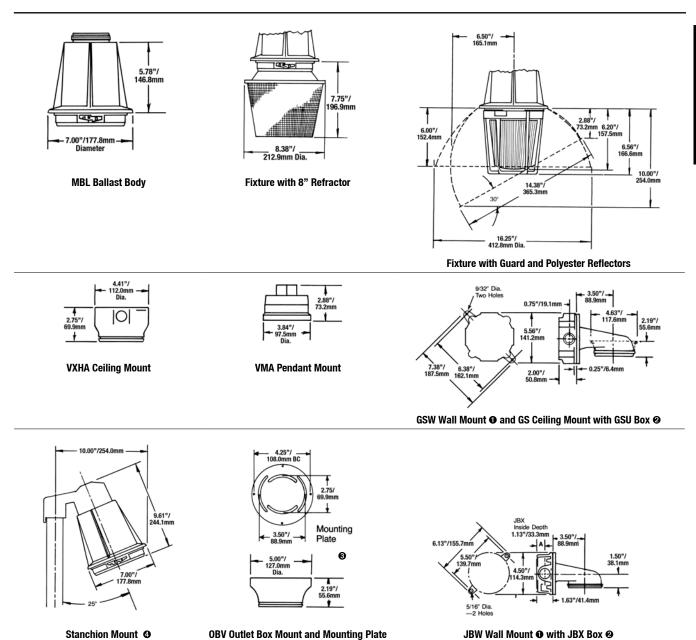
- V-51 reflectors cannot be used with Mercmaster Jr. Fixtures.
- 2 Do not use Polycarbonate Globes in ambients exceeding 77 °F/25 °C. These globes for burning in vertical base-up position only.



# **Mercmaster<sup>™</sup> Jr. Luminaire Dimensions**

## 35 W, 50 W, 70 W, 100 W, 150 W

UNILETS® for Use with Threaded Metal Conduit. 120 V Integral Ballast. Medium Base Socket for Medium Base Lamps.



- Mounting holes 9/32" diameter on 5-1/8" centers. Mounting plate is a separate piece furnished with outlet box mount fixture. The 2.75" dimension is for mounting on 3-1/4" octagonal boxes and the 3.50" dimension is for 4" octagonal boxes.
- **2** Wall mount fixtures provide the following wall clearances: with GSU box 2" from wall with globe and 1-5/16" from wall with refractor; with JBX box 1-5/8" from wall with globe and 15/16" from wall with refractor. Reflectors cannot be used with wall mount fixtures.
- Order GSU or JBX box separately.
- Standard dome or 30° angle reflectors can be used with stanchion mount.

